

## TECHNICAL MEMORANDUM

June 11, 2001



**To:** Mr. Stan Komperda, Project Manager  
Illinois Environmental Protection Agency

**From:** Mr. Sasa Jazic, Project Engineer  
Parsons Engineering Science, Inc.

**Subject:** Update of Fieldwork Activities  
May 17 through May 30, 2001  
Lockformer Facility  
Lisle, Illinois

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Parsons Engineering Science, Inc. (Parsons) has prepared the following memo to provide a summary of fieldwork activities completed from May 17 through May 30, 2001, at the Lockformer site in Lisle, Illinois. Parsons performed oversight for work conducted by Clayton Environmental Group, Inc. (Clayton) personnel during field activities. These activities included advancement of soil borings via direct push for the investigation of the interior sewer lines, the former degreaser area, and in exterior areas adjacent to the south door of the facility. Additionally, oversight was performed during the advancement of casing for monitoring well MW-1108D. Parsons personnel assigned to the oversight team during this period included Ms. Karen Carlisle and Mr. Daniel Liebau. The following sections provide a synopsis of activities completed during this stage of the fieldwork for this project. Select photographs are included as Attachment A.

### May 17 through May 30, 2001

On May 17 through May 23, 2001, Mid-America Drilling, using a hand cart direct push soil probe rig, advanced soil borings to investigate interior sewer lines in the manufacturing area of the Lockformer facility. For more details, see Figure 7 of the May 25, 2001 Clayton work plan prepared for this portion of the project. On Figure 7, the sewer line investigation borings are shown in red. Mid-America (Clayton's drilling contractor) began by coring through the concrete floor, then advanced the direct push soil borings to the desired depth. Continuous soil samples were retrieved every two feet. Clayton logged the soil samples and placed the samples from each two-foot interval in plastic baggies for headspace analysis using a photoionization detector (PID). Borings CSB-1301 through CSB-1314 were advanced to a depth of sixteen feet below ground (floor) surface. Three soil samples were collected for volatile organic compound (VOC) analysis from each boring location. Upon completion, the soil borings were filled with bentonite chips and the floor was patched with concrete.

On May 22 and 23, 2001, Boart Longyear began installing the steel outer casing of monitoring well MW-1108D in the asphalt parking lot west of the Lockformer building. Boart Longyear utilized a 14-inch mud rotary bit and blind drilled to a depth of 51 feet below ground surface (bgs), then collected a confirmation split spoon to confirm the geologic unit to set the casing. The casing was set at 51 feet bgs and grouted in place.

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On May 23 through May 24, 2001, work continued on the soil borings located inside the Lockformer building, this portion of work included the former degreaser investigation. Soil borings CSB-1315 through CSB-1324 were advanced in the vicinity of the former degreaser. These borings were advanced to 16 feet below floor surface and are purple on Figure 7 in the May 2001 Clayton work plan. Clayton logged the soil samples and placed soil samples from each two-foot interval in plastic baggies for headspace analysis using a PID. Three soil samples were collected for VOC analysis from each location. One boring, CSB-1318, which is located approximately 5 feet due north of the degreaser, was advanced to a depth of 18 feet below floor surface due to high field screening and headspace data. Five soil samples from this boring were submitted for laboratory analysis.

On the morning of May 25, 2001, two soil borings were advanced in the basement of the Lockformer facility, just east of the men's locker room and north of the upper management garages. Boring CSB-1327 was advanced just north of a sump that collects water from the basement drain tile. This boring was advanced to 16 feet below floor surface and three samples were submitted to the lab for VOC analysis. Soil boring CSB-1328 was located in a "pit" that houses the on-site emergency generator. Only one soil sample was collected (0-2' below floor surface) due to water flowing into the hole from underneath the concrete. Due to the presence of water, Clayton collected a water sample from this location. A petroleum odor was noted in the soil and water at this location.

On May 30 2001, the investigation outside the south door of the facility was completed. Eight direct push soil borings were advanced, CSB-1401 through CSB-1408. These borings were advanced to 16 feet bgs and are depicted by green coloring on Figure 7 in the May 2001 Clayton work plan. Clayton logged the soil samples and placed the collected soil from each two-foot interval in plastic baggies for headspace analysis using a PID. Three soil samples were collected for VOC analysis from each location.

### **Future Activities**

Parsons is continuing to provide oversight services on this project and will provide additional reports on the field activities at the site. The next scheduled fieldwork activities are dual packer testing, downhole videotaping of the bedrock wells and groundwater sampling of the shallow wells. According to Clayton, these activities will begin on June 4, 2001.

c: Stan Black/Illinois EPA  
Howard Chinn/Illinois Attorney General  
Marc Cummings/Illinois EPA  
Donald Gimbel/Illinois EPA  
Kendra Pohn/Illinois Attorney General  
Steven Faryan/USEPA  
File: 739452.01000

## **PHOTOGRAPHIC LOG**

**Project Name:** Lockformer Site

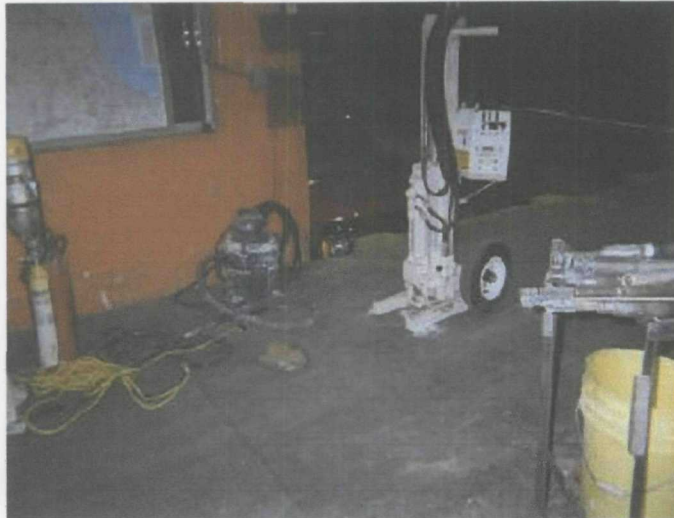
**Location:** Lisle, Illinois

**Date:** May 21, 2001

**Taken By:** K. Carlisle

**Direction Looking:** Northeast

**Notes:** Location of CSB-1313.  
Loading dock in background



**Project Name:** Lockformer Site

**Location:** Lisle, Illinois

**Date:** May 22, 2001

**Taken By:** K. Carlisle

**Direction Looking:** South

**Notes:** Location of CSB-1318, green  
degreaser in background.



## **PHOTOGRAPHIC LOG**

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**Project Name:** Lockformer Site

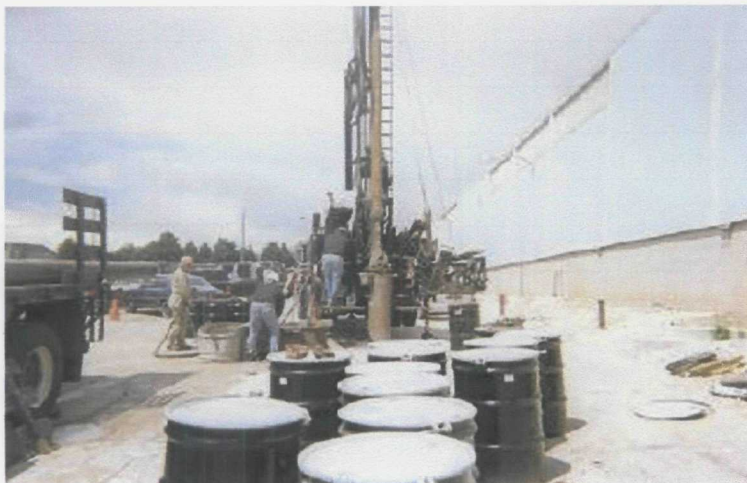
**Location** Lisle, Illinois

**Date:** May 22, 2001

**Taken By:** K. Carlisle

**Direction Looking:** North

**Notes:** Drilling set up at MW-1108D.  
14" mud rotary bit.



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**Project Name:** Lockformer Site

**Location** Lisle, Illinois

**Date:** May 25, 2001

**Taken By:** K. Carlisle

**Direction Looking:** Southwest

**Notes:** Location of CSB-1327 just  
north of sump pump in  
basement.

